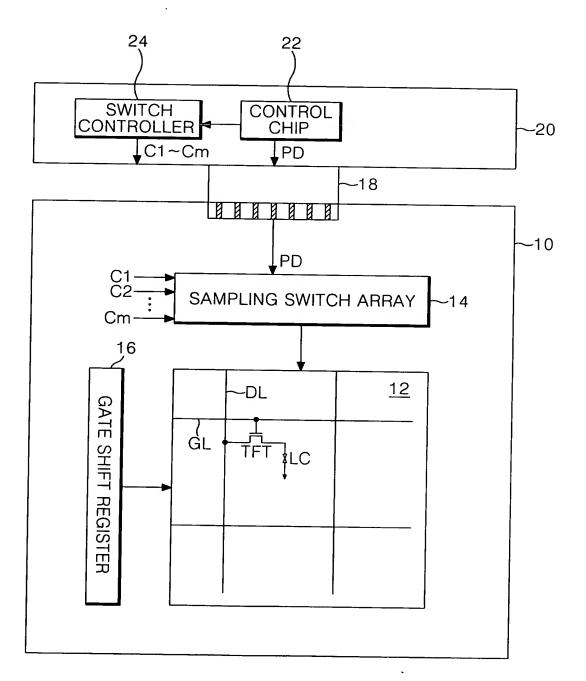
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Inventor: Young-Min Ha, et al.
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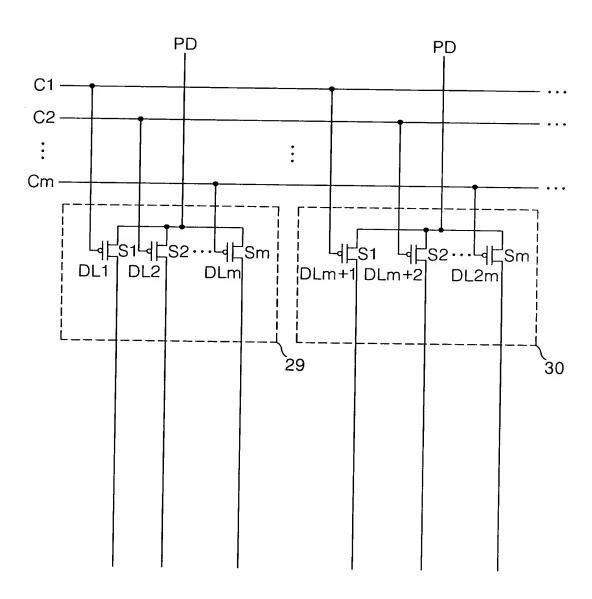
FIG.1
RELATED ART



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FIG.2 RELATED ART



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FIG.3
RELATED ART

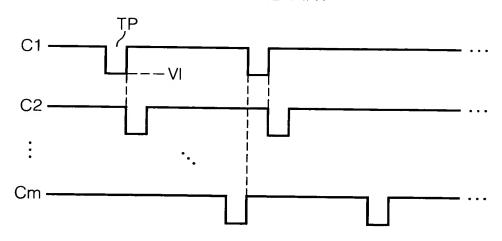
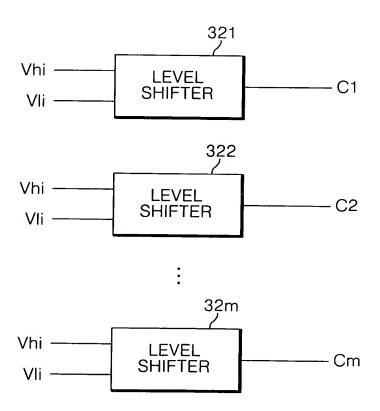


FIG.4
RELATED ART



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FIG.5A RELATED ART

+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+

FIG.5B RELATED ART

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			 	 -	<u> </u>		
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_	1		1	_	_	_	_
1	ı	1	-	_		_	_
	_	1	_	_	_	_	_
-	_	_	_	-	-	_	
-	_	-	-	-	-	_	_

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FIG.6A RELATED ART

+	+	+	+	+	+	+	+
L-	_	-	_	_	_	_	-
+	+	+	+	+	+	+	+
_	_	-	1	_	_	_	_
+	+	+	+	+	+	+	+
_	ı	1	1	_	_	_	-
+	+	+	+	+	+	+	+
	_	_	-	-	-	_	_

FIG.6B RELATED ART

	_	_	_	_	_	-	_
+	+	+	+	+	+	+	+
_	_	_	_	_	_	_	_
+	+	+	+	+	+	+	+
_	_	_	1		_	_	_
+	+	+	+	+	+	+	+
_	_	_	_	_	_	_	_
+	+	+	+	+	+	+	+

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FIG.7A RELATED ART

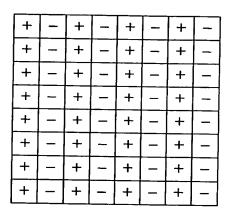


FIG.7B RELATED ART

	,		_				
_	+	_	+	_	+	_	+
L	+	_	+	_	+	_	+
	+	_	+	_	+	_	+
	+	ı	+	_	+	_	+
_	+	1	+	_	+	_	+
_	+	-	+	_	+	-	+
_	+	_	+	-	+	-	+
_	+	_	+	-	+	-	+

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FIG.8A RELATED ART

+		+		+		+	<u> </u>
<u> </u>	 	<u> </u>	 	<u> </u>	L	<u>'</u>	
L	+	_	+	-	+	_	+
+	_	+	1	+	_	+	_
_	+	_	+	1	+	-	+
+	_	+		+	_	+	1
_	+	1	+	_	+	_	+
+	_	+		+	_	+	_
_	+	-	+	-	+	-	+

FIG.8B RELATED ART

_	+	_	+		+	_	+
+	_	+	_	+	-	+	_
	+	-	+	_	+		+
+	-	+		+	_	+	_
_	+	-	+	-	+	_	+
+	_	+	1	+	_	+	_
_	+	_	+	_	+	_	+
+]	+	_]	+	-	+	_

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FIG.9 RELATED ART

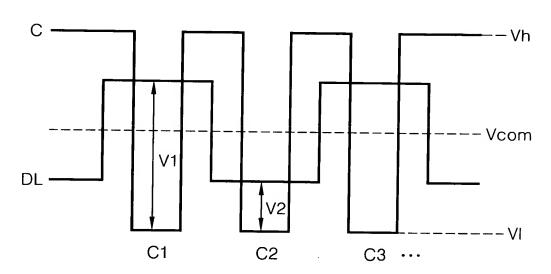
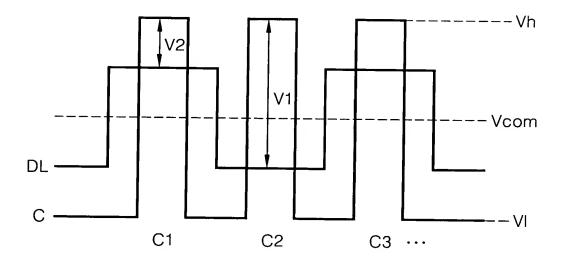


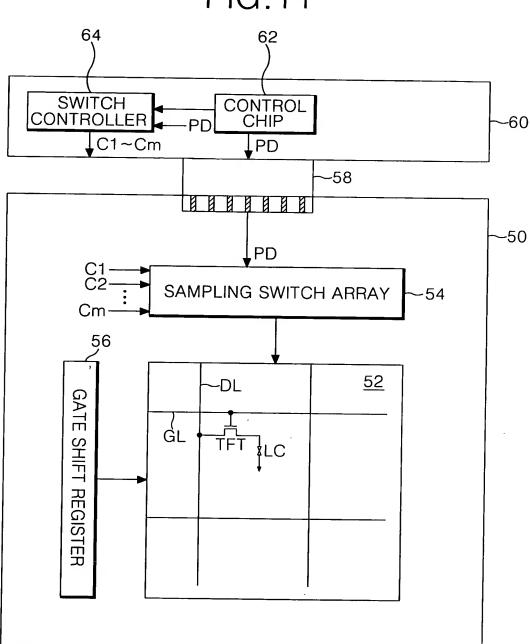
FIG.10 RELATED ART



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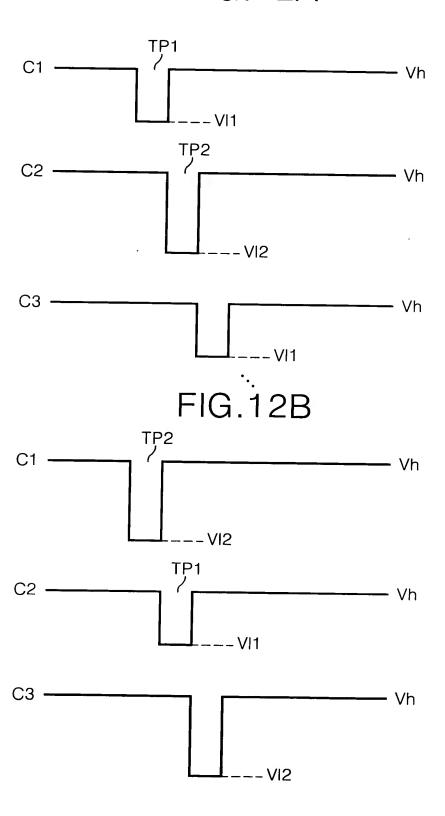
FIG.11



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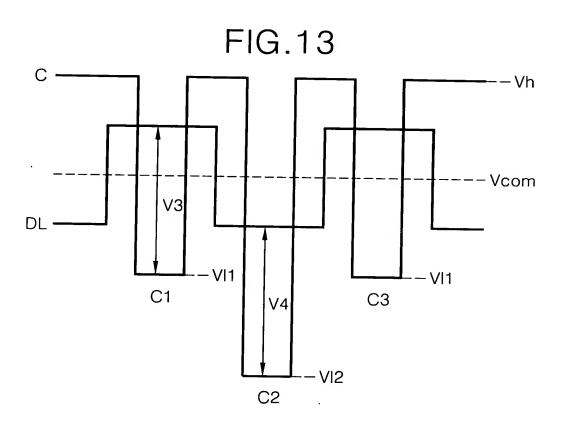
FIG.12A

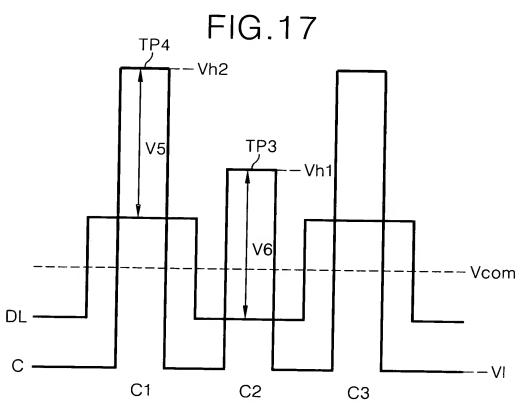


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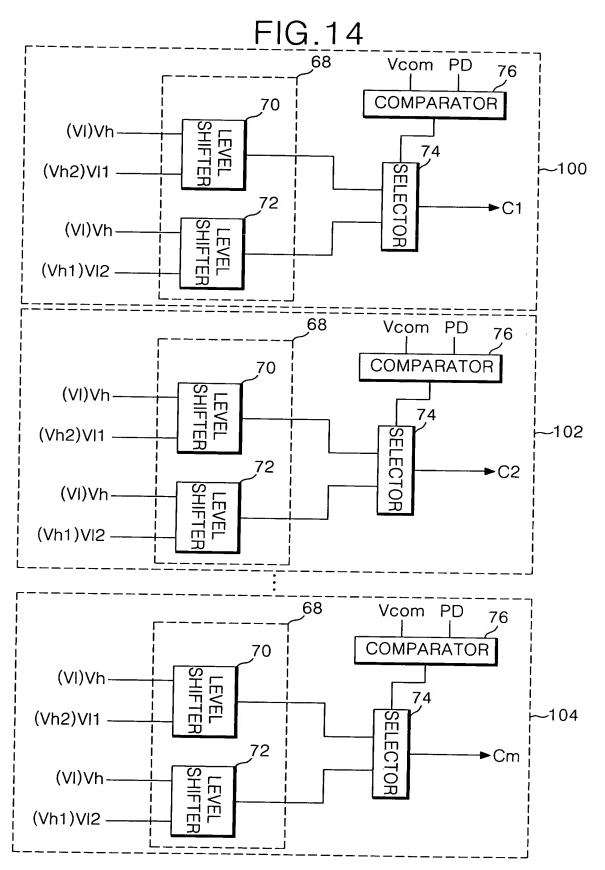
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FIG.15 Vcom PD COMPARATOR -106 8,2 84 LEVEL SHIFTER SE (Vh2)VI1 (VI)Vh LECTOR ►C1 (Vh1)VI2 Vcom PD COMPARATOR -108 82 84 SHIFTEF (Vh2)VI1 LECTOR ►C2 (Vh1)Vl2 Vcom PD **COMPARATOR** -80 -110 8,2 84 SELECTOR LEVEL SHIFTER (Vh2)VI1 (VI)Vh ►Cm (Vh1)Vl2

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